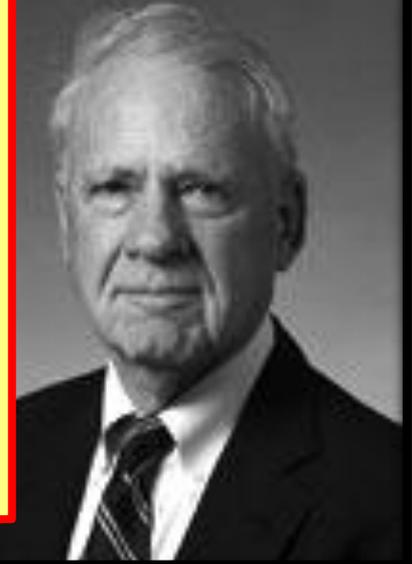


Dr. James R. Schlesinger
(1929-2014)

**Our visionary and
dedicated Leader will be
greatly missed**
("boots on to the end")



- His National Leadership Posts marked with creative initiatives
 - Chairman of AEC and later 1st Secretary of Energy
 - Head of CIA
 - Secretary of Defense
- Adopted GPS as a personal project
 - Chaired national study *The Global Positioning System: Charting the Future* - 1995
 - Chair of the PNTAB
 - Removal of intentional (and ineffective) degradation- S/A
 - Persuaded DoD to modify IIR to IIRM
 - Spectrum allocation threat

The Problem?

- **High-level USG Official:**

“GPS is much too vulnerable, we must replace it with new Inertials and Chip scale atomic clocks”

- Indeed, GPS has a very weak signal, and also depends on Line of Sight to at least 4 satellites,

But...

- **IMHO – Better Statement – the “PTA” solution:**

“We must Protect, Toughen, and Augment GPS to ensure that it meets User’s PNT needs”

Assured Availability
of PNT - "PTA"

Three Action Areas:

PTA – Protect, Toughen, Augment

- Protect the Clear and Truthful Signal
- Toughen User's Receivers
- Augment or substitute PNT sources

Who is responsible for Protecting, Toughening and Augmenting for PNT?

To My Knowledge

- Parts of PTA are being pursued (Incoherently?)
- No-entity (*in the US – Europe?*) is identified that has the knowledge, breadth, will, and resources...
- So we ants must do it ourselves...
- Perhaps an international Focus Group
(Out of existing Intl. Groups?)



Tuesday/Wednesday – Each Group

Keep it succinct please

- What is pertinent status in your area?
- What are major issues?
- What are possible recommendations?
 - Urgency?
 - Probability of acceptance?